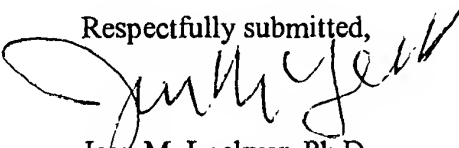


information, and no inference should be made that the information and references are cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

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Respectfully submitted,



Jean M. Lockyer, Ph.D.  
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	09/546,986
				Filing Date	April 11, 2000
				First Named Inventor	Powers, Scott
				Group Art Unit	1646
				Examiner Name	Mertz, Prema Maria
Sheet	1	of	2	Attorney Docket Number	018781-004720US

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	BB	PCT	WO 96/30406	A1	Human Genome Sciences, Inc.	10-03-1996		
	BC	PCT	WO 01/68805	A2	Senomyx, Inc.	09-20-2001		

Examiner Signature		Date Considered	
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>	
	2	of	2
		Applicati n Number	09/546,986
		Filing Dat	April 11, 2000
		First Named Inventor	Powers, Scott
		Group Art Unit	1646
		Examiner Name	Mertz, Prema Maria
		Attorney Docket Number	018781-004720US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	Birren, B. <i>et al.</i> "Homo sapiens chromosome 18, clone RP11-482N10" DATABASE GENEMBL (Online) Accession AC023386, nucleotides 98850-993300 and nucleotides 75400-76070.	
	C2	Buck, <i>et al.</i> "A Novel Multigene Family May Encode Odorant Receptors: A Molecular Basis for Odor Recognition" <i>Cell</i> (April 1991) Vol. 65, pp. 175-187.	
	C3	Carmeci, <i>et al.</i> "Identification of a Gene (GPR30) with Homology to the G-Protein-Coupled Receptor Superfamily Associated with Estrogen Receptor Expression in Breast Cancer" <i>Genomics</i> (November 1997) Vol. 45(3); pp. 607-617.	
	C4	Drutel, G. <i>et al.</i> "Cloning of OL1, A Putative Olfactory Receptor and Its Expression in the Developing Rat Heart" <i>Receptors and Channels</i> (1995) Vo. 3, pp. 33-40.	
	C5	Mikayama, <i>et al.</i> "Molecular Cloning and Functional Expression of a cDNA Encoding Glycosylation-inhibition Factor" <i>Proc. Natl. Acad. Sci USA</i> (November 1993) Vol. 90, pp. 10056-10060.	
	C6	Nef, <i>et al.</i> "Spatial Pattern of Receptor Expression in the Olfactory Epithelium" <i>Proc. of Nat. Acad. Sci. USA</i> (October 1992) Vol. 89; pp. 8948-8952.	
	C7	Voet, <i>et al.</i> "Sickle-Cell Anemia: The Influence of Natural Selection" <i>Biochemistry, 10th Ed. published by John Wiley &amp; Sons, Inc.</i> (1990), pp. 228-234.	

Examiner Signature		Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**PATENT**  
Attorney Docket No.: 018781-004720US  
Client Reference No.: T99-024-2

Assistant Commissioner for Patents  
Washington, D.C. 20231

On 9/20/01

TOWNSEND and TOWNSEND and CREW LLP

By: *A. Judice*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Powers, *et al.*

Application No.: 09/546,986

Filed: April 11, 2000

For: NOVEL G-PROTEIN COUPLED  
RECEPTORS

Examiner: Prema Mertz, Ph.D.

Art Unit: 1646

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER 37  
CFR §1.97 and §1.98

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The reference cited on attached form PTO-SB/08A is being called to the attention of the Examiner. A copy of the reference (page 1-176) is enclosed. The printed version of the formal sequence listing was not enclosed as it was nearly 1800 pages long. It is respectfully requested that the cited reference be expressly considered during the prosecution of this application, and the reference be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and

Application No.: 09/546,986  
Page 2

no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

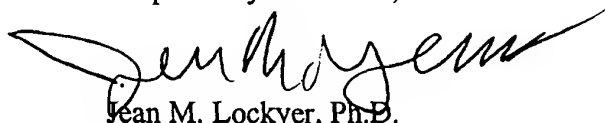
This IDS is being submitted prior to the first Office Action on the merits.

CERTIFICATION

I hereby certify that no item of information in the information disclosure statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in Section 1.56(c) more than three months prior to the filing of this information disclosure statement.

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Respectfully submitted,

  
Jean M. Lockyer, Ph.D.  
Reg. No. 44,879

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
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JML:adf

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	09/546,986	
			Filing Date	April 11, 2000	
			First Named Inventor	Powers, Scott	
			Group Art Unit	1646	
			Examiner Name	Prema Mertz, Ph.D.	
Sheet	1	of	1	Attorney Docket Number	018781-004720US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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Examiner Signature		Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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PATENT  
Attorney Docket No.: 018781-004720US

Assistant Commissioner for Patents  
Washington, D.C. 20231

On SEPT. 6, 2000

TOWNSEND and TOWNSEND and CREW LLP

By: Sharon J. Savino

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Scott Powers, et al.

Application No.: 09/546,986

Filed: April 11, 2000

For: NOVEL G-PROTEIN COUPLED  
RECEPTORS

Examiner: Not Assigned

Art Unit: 1614

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

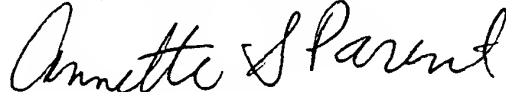
The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

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no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

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Respectfully submitted,



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ASP:jmm



FORM PTO-1449 (Modified)		Attorney Docket No.: 018781-004720US		Application No.: 09/546,986	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Scott Powers, et al.			
		Filing Date: April 11, 2000		Group: 1614	
Reference Designation		U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Filing Date (If Appropriate)
FOREIGN PATENT DOCUMENTS					
	Document No.	Date	Country	Class	Translation (Yes/No)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
_____ AA	Buck, et al. "A Novel Multigene Family May Encode Odorant Receptors: A Molecular Basis for Odor Recognition"; <i>Cell</i> , Vol. 65, 175-187, April, 1991.				
EXAMINER		DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.